

C1
pollutant degrading enzyme, a xylene degrading enzyme, a toluene degrading enzyme, a camphor degrading enzyme, a naphthalene degrading enzyme, a halogenated hydrocarbon degrading enzyme, a biphenyl degrading enzyme, a polychlorinated biphenyl (PCB) degrading enzyme, a polycyclic aromatic hydrocarbon (PHA) degrading enzyme, a polyhydroxybutyrate (PHB) degrading enzyme, a trichlorethylene degrading enzyme, a pentachlorophenyl (PCP) degrading enzyme, a trichloroethylene degrading enzyme, a paranitrobenzyl, esterase, a sesquiterpene synthase, an expandase, a penicillin amidase, a penicillin G amidase, an enzyme which modifies 7-aminodeacetoxycephalosporanic acid (7-ADCA), an enzyme which modifies a semi-synthetically produced cephalosporin, and an enzyme which modifies penicillin V.

C2
143 (Amended). The method of claim 31 or 33, wherein the selecting comprises monitoring one or more enzymatic activities of one or more enzymes selected from the group consisting of: an acylase, a dioxygenase, a monooxygenase, a carotenoid synthetic enzyme, a hydrolytic enzyme, a catabolic enzyme, a nitroreductase, a benzene degrading enzyme, a nitrobenzene degrading enzyme, a nitrotoluene degrading enzyme, a toxin degrading enzyme, an industrial chemical degrading enzyme, an herbicide degrading enzyme, a cellulose degrading enzyme, a pesticide degrading enzyme a pollutant degrading enzyme, a xylene degrading enzyme, a toluene degrading enzyme, a camphor degrading enzyme, a naphthalene degrading enzyme, a halogenated hydrocarbon degrading enzyme, a polychlorinated biphenyl (PCB) degrading enzyme, a polycyclic aromatic hydrocarbon (PHA) degrading enzyme, a polyhydroxybutyrate (PHB) degrading enzyme, a trichlorethylene degrading enzyme, a pentachlorophenyl (PCP) degrading enzyme, a trichloroethylene degrading enzyme, a paranitrobenzyl, esterase, a sesquiterpene synthase, an expandase, a penicillin amidase, a penicillin G amidase, an enzyme which modifies 7-aminodeacetoxycephalosporanic acid (7-ADCA), an enzyme which modifies a semi-synthetically produced cephalosporin, and an enzyme which modifies penicillin V.

For the Examiner's convenience, a marked copy of the amended claims is being submitted herewith as Appendix A and a complete claim set of the currently pending claims is also submitted as Appendix B.